

Land Processes Distributed Active Archive Center



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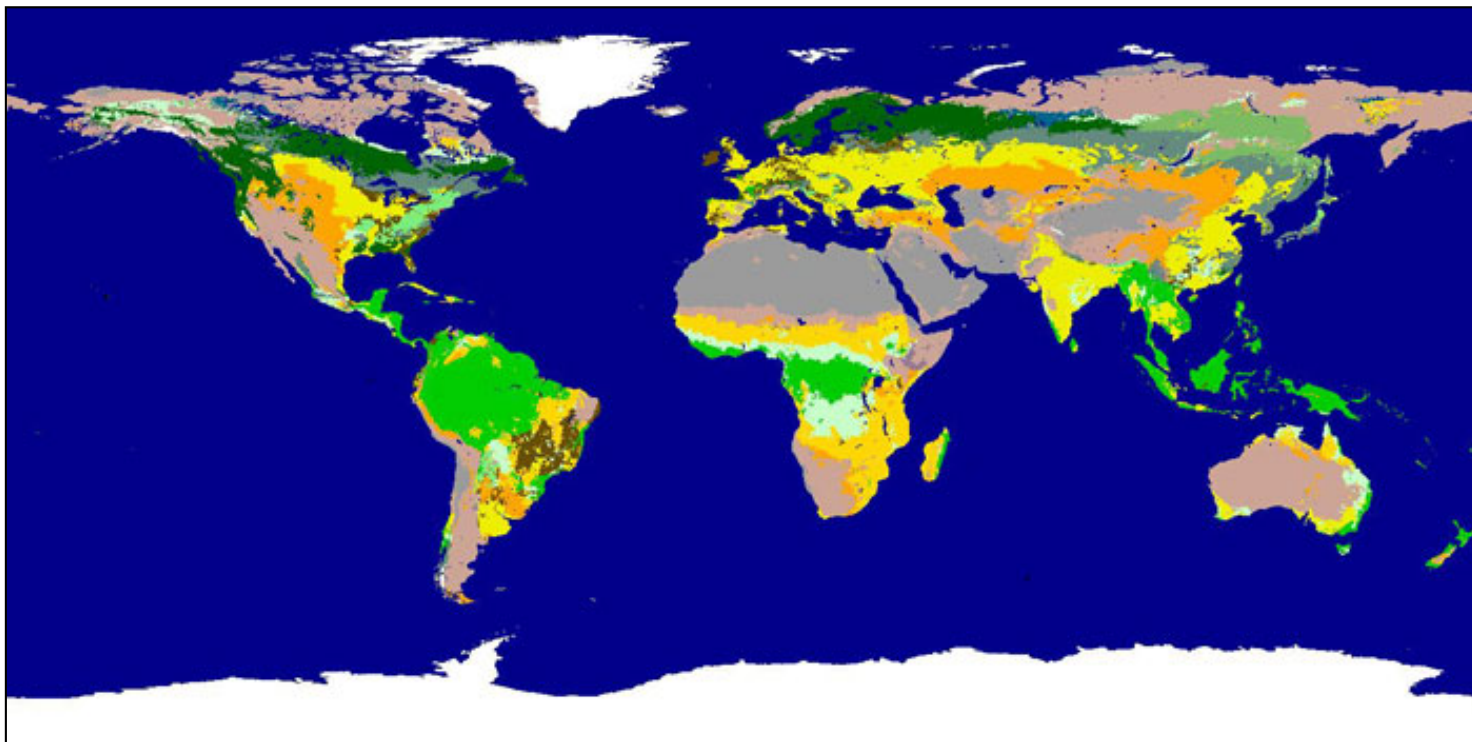
EDG Data Set Name

MODIS/Terra Land Cover Type 96-Day L3 Global 0.25Deg CMG

Granule Shortname

MOD12C1

Version	Acquisition Range	Science Quality Status
V003	Oct 15 2000 (2000289) - Oct 15 2001 (2001288)	Validated (Stage 1)



Data Set Characteristics

Area = Global

Image Dimensions:

Majority Land Cover Type 1 = 2 (720x1440 rows/columns)

Majority Land Cover Type 1 Assessment = 2 (720x1440 rows/columns)

% Proportion of LC Type 1 = 3 (720x1440x18 row/column/percent)

Majority Land Cover Type 2 = 2 (720x1440 rows/columns)

Majority Land Cover Type 2 Assessment = 2 (720x1440 rows/columns)

% Proportion of LC Type 2 = 3 (720x1440x15 row/column/percent)

Average File Size = 38 MB

Resolution = 0.25 degree (28km)

Projection = Latitude/Longitude Grid

Data Format = HDF-EOS

Science Data Sets (SDS) = 7

Product Description














The Land Cover Classification product, MOD12C1, identifies 17 classes of land cover in the International Geosphere-Biosphere Programme (IGBP) global vegetation classification scheme. This scheme includes 11 natural vegetation classes, 3 developed land classes, one of which is a mosaic with natural vegetation, permanent snow or ice, barren or sparsely vegetated, and water. Additional Science Data Set layers are for another classification scheme, the University of






Maryland modification of the IGBP scheme. These classes are distinguished with a supervised decision tree classification method.

The MOD12 classification schemes are multitemporal classes describing land cover properties at a 1 km² spatial resolution as observed during the year (12 months of input data). Successive production of this "annual" product allows us to make new land cover maps with increasing accuracies as both classification techniques and the training site database mature. For land cover change, users should use the Vegetation Cover Conversion product, MOD44, or the Land Cover Dynamics product, MOD12Q2. The latter is expected to appear in the end of 2003, as at least two years of reprocessed consistent MODIS data becomes available.

NOTE: These products are "Validated Stage 1." Incremental product improvements are still occurring, and users are urged to contact MODIS Science Team representatives prior to use of the data in publications. These data may be replaced when more mature products become available.

SDS	UNITS	DATA TYPE-bit	FILL VALUE	VALID RANGE
Majority Land Cover Type 1	Class #	8-bit unsigned	255	0, 254
Majority Land Cover Type 1 Assessment	% Confidence in Integers	8-bit unsigned	255	0,254
Land Cover Type 1 Percent	% in Integers	8-bit unsigned	255	0,254
*Majority Land Cover Type 1 QC	Concatenated Flags	8-bit unsigned	255	0,254
Majority Land Cover Type 2	Class #	8-bit unsigned	255	0,254
Majority Land Cover Type 2 Assessment	% Confidence in Integers	8-bit unsigned	255	0,254
Land Cover Type 2 Percent	% in Integers	8-bit unsigned	255	0,254

CLASSIFICATION	INDEX	COLOR	CLASSIFICATION	INDEX
Majority Land Cover Type 1			Majority Land Cover Type 2 Classification	
water	0		water	0
evergreen needleleaf forests	1		evergreen needleleaf forests	1
evergreen broadleaf forests	2		evergreen broadleaf forests	2
deciduous needleleaf forests	3		deciduous needleleaf forests	3
deciduous broadleaf forests	4		deciduous broadleaf forests	4
mixed forests	5		mixed forests	5
closed shrublands	6		closed shrublands	6
open shrublands	7		open shrublands	7
woody savannas	8		woody savannas	8
savannas	9		savannas	9
grasslands	10		grasslands	10
permanent wetlands	11			
croplands	12		croplands	12

urban and built-up	13		urban and built-up	13
cropland/natural vegetation mosaic	14			
snow and ice	15			
barren or sparsely vegetated	16		barren or sparsely vegetated	16
unclassified	254		unclassified	254

***Majority Land Cover Type 1 QC**

FIRST TWO BITS	MANDATORY QA
processed, good quality	0
processed, see other quality	1
not processed due to cloud	2
not processed due to other	3

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Order Data through the EOS Data Gateway

(<http://edcimswww.cr.usgs.gov/pub/imswelcome/>)

EOS Data Gateway Search Tips

Data Center: EDC-ECS

Sensor: MODIS

Dataset: MODIS/Terra Land Cover Type 96-Day L3 Global 0.25Deg CMG

Geographic Extent: Type Lat/Long Range or Draw on Map

Temporal Extent: 2000-10-15

Product Information

[Product Description](#)

(<http://modis-land.gsfc.nasa.gov/products/products.asp?ProdFamID=10>)

[User Guide](#)

(<http://geography.bu.edu/landcover/userguidelc/>)

[Algorithm Theoretical Basis Document \(ATBD\)](#)

(http://eospso.gsfc.nasa.gov/eos_homepage/for_scientists/atbd/viewInstrument.php?instrument=MODIS)

[MODIS Standard Data Products Catalog](#)

(<http://modis.gsfc.nasa.gov/data/dataprod/descchart.html>)

[EOS Data Products Handbook Volume 1 \(2000\)](#)

(http://eospso.gsfc.nasa.gov/eos_homepage/for_scientists/data_products/vol1.php)

Contact Information

[LP DAAC User Services](#)

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URL: <http://LPDAAC2.usgs.gov/modis/mod12c1.asp>

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Last Update: Thursday, September 25, 2003

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